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Serial Number: 10/634,232

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Inventor Information for 10/634232

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US 6678547 B2	USPAT	20040113	Cardiac rhythm management system using time-domain heart rate variability indicia	600/515	607/14	Carlson; Gerrard M. et al.
US 6652517 B1	USPAT	20031125	Ablation catheter, system, and method of use thereof	606/41	606/49; 607/122	Hall; Jeffrey A. et al.
US 6650940 B1	USPAT	20031118	Accelerometer-based heart sound detection for autocapture	607/28	600/528	Zhu; Qingsheng et al.
US 6648881 B2	USPAT	20031118	Method for reducing arterial restenosis in the presence of an	606/32	600/372; 600/381; 606/194;	KenKnight; Bruce H. et al.

			intravascular stent		606/198; 606/41	
US 6640135 B1	USPAT	20031028	Apparatus and method for spatially and temporally distributing cardiac electrical stimulation	607/9	607/15	Salo; Rodney W. et al.
US 6628988 B2	USPAT	20030930	Apparatus and method for reversal of myocardial remodeling with electrical stimulation	607/9		Kramer; Andrew P. et al.
US 6622040 B2	USPAT	20030916	Automatic selection of stimulation chamber for ventricular resynchronization therapy	607/9		Ding; Jiang et al.
US 6611712 B2	USPAT	20030826	Apparatus and method for testing and adjusting a bipolar stimulation configuration	607/11	607/28	Spinelli; Julio C. et al.
US 6587720 B2	USPAT	20030701	System and method for treating supraventricular tachyarrhythmias	607/4		Hsu; William et al.
US 6574514 B2	USPAT	20030603	System and assembly having conductive fixation features	607/126		Partridge; Scott M. et al.
US 6556862 B2	USPAT	20030429	Method and apparatus for treating supraventricular tachyarrhythmias	607/4		Hsu; William et al.
US 6539257 B1	USPAT	20030325	Method and apparatus for treating cardiac arrhythmia	607/5	600/515	KenKnight; Bruce H.
US 6539256 B1	USPAT	20030325	Method and apparatus for treating cardiac arrhythmia using electrogram features	607/5		KenKnight; Bruce H. et al.
US 6539249 B1	USPAT	20030325	Method and apparatus for assessing patient well-being	600/510		Kadhiresan; Veerichetty A. et al.
US 6529772 B2	USPAT	20030304	Heart rate variability as an indicator of exercise capacity	600/510	600/521; 607/25	Carlson; Gerrard M. et al.
US 6526317 B2	USPAT	20030225	System and method for treating atrial arrhythmias	607/4		Hsu; William et al.
US 6519488 B2	USPAT	20030211	Method and system for reducing arterial restenosis in the presence of an intravascular stent	600/372	606/194; 606/198; 606/41	KenKnight; Bruce H. et al.
US 6501988 B2	USPAT	20021231	Apparatus and method for ventricular rate	607/9	607/25	Kramer; Andrew P. et al.

			regularization with biventricular sensing			al.
US 6490485 B1	USPAT	20021203	Automatic rate-adaptive pacing with auto-lifestyle	607/20	607/18	Sun; Weimin et al.
US 6473646 B2	USPAT	20021029	Method and apparatus for assessing cardiac functional status	607/27	600/510	Sun; Weimin et al.
US 6470211 B1	USPAT	20021022	Method and apparatus for treating cardiac arrhythmia	607/5		Ideker; Raymond E. et al.
US 6453201 B1	USPAT	20020917	Implantable medical device with voice responding and recording capacity	607/62	600/586	Daum; Douglas R. et al.
US 6453192 B1	USPAT	20020917	Detection of ventricular ectopic beats using ventricular electrogram	600/516	607/24	Ding; Jiang et al.
US 6430449 B1	USPAT	20020806	Catheter for treating supraventricular tachyarrhythmias	607/126		Hsu; William et al.
US 6400986 B1	USPAT	20020604	Adaptive anti-tachycardia therapy apparatus and method	607/14	607/5	Sun; Weimin et al.
US 6400982 B2	USPAT	20020604	Cardiac rhythm management system with arrhythmia prediction and prevention	600/515		Sweeney; Robert J. et al.
US 6363278 B1	USPAT	20020326	Cardiac rhythm management system with staggered pulses for coordination therapy	607/9		Stahmann; Jeffrey E. et al.
US 6317615 B1	USPAT	20011113	Method and system for reducing arterial restenosis in the presence of an intravascular stent	600/372	600/381; 606/194; 606/198; 606/41	KenKnight; Bruce H. et al.
US 6301499 B1	USPAT	20011009	Heart rate variability as an indicator of exercise capacity	600/510	600/521; 607/25	Carlson; Gerrard M. et al.
US 6285909 B1	USPAT	20010904	Preserving patient specific data in implantable pulse generator systems	607/32		Sweeney; Robert J. et al.
US 6280462 B1	USPAT	20010828	Implantable intravenous cardiac stimulation system with pulse generator housing serving as optional additional	607/5		Hauser; Robert G. et al.

			electrode			
US 6278894 B1	USPAT	20010821	Multi-site impedance sensor using coronary sinus/vein electrodes	600/547		Salo; Rodney W. et al.
US 6275730 B1	USPAT	20010814	Method and apparatus for treating cardiac arrhythmia	607/5		KenKnight; Bruce H. et al.
US 6272377 B1	USPAT	20010807	Cardiac rhythm management system with arrhythmia prediction and prevention	600/515		Sweeney; Robert J. et al.
US 6266563 B1	USPAT	20010724	Method and apparatus for treating cardiac arrhythmia	607/5	607/14; 607/4	KenKnight; Bruce H. et al.
US 6251125 B1	USPAT	20010626	Method and apparatus for treating ventricular fibrillation using electrogram features	607/5		KenKnight; Bruce H. et al.
US 6246908 B1	USPAT	20010612	Method and apparatus for rapidly predicting outcome of arrhythmia therapy	607/5		Chattipakorn; Nipon et al.
US 6246906 B1	USPAT	20010612	System and method for treating atrial arrhythmias	607/4	607/13; 607/14	Hsu; William et al.
US 6243603 B1	USPAT	20010605	Methods and apparatus for detecting medical conditions of the heart	607/5	607/9	Ideker; Raymond E. et al.
US 6230055 B1	USPAT	20010508	Method and apparatus for adaptive tachycardia and fibrillation discrimination	607/5		Sun; Weimin et al.
US 6205357 B1	USPAT	20010320	Methods and apparatus for detecting and treating medical conditions of the heart	607/14	607/15	Ideker; Raymond E. et al.
US 6169921 B1	USPAT	20010102	Autocapture determination for an implantable cardioverter defibrillator	607/4	607/28	KenKnight; Bruce H. et al.
US 6168801 B1	USPAT	20010102	Controlled release drug delivery	424/426	424/424; 424/425	Heil, Jr.; Ronald W. et al.
US 6157860 A	USPAT	20001205	Implantable intravenous cardiac stimulation system with pulse generator housing serving as optional additional electrode	607/9		Hauser; Robert G. et al.
US 6152955 A	USPAT	20001128	Implantable conformal	607/129		KenKnight;

			coil patch electrode with multiple conductive elements for cardioversion and defibrillation			Bruce H. et al.
US 6148230 A	USPAT	20001114	Method for the monitoring and treatment of spontaneous cardiac arrhythmias	600/516	600/509	KenKnight; Bruce H.
US 6135970 A	USPAT	20001024	Method and apparatus for assessing patient well-being	600/595		Kadhiresan; V. A. et al.
US 6122553 A	USPAT	20000919	Method and apparatus for treating cardiac arrhythmia	607/122		Ideker; Raymond E. et al.
US 6112117 A	USPAT	20000829	Method and apparatus for treating cardiac arrhythmia using electrogram features	607/5		KenKnight; Bruce H. et al.
US 6058329 A	USPAT	20000502	Optimization of pacing parameters based on measurement of acoustic noise	607/17		Salo; Rodney W. et al.
US 6044298 A	USPAT	20000328	Optimization of pacing parameters based on measurement of integrated acoustic noise	607/17		Salo; Rodney W. et al.
US 6044296 A	USPAT	20000328	Pacing output coupling capacitor for automatic capture threshold detection in cardiac pacing systems	607/13		Zhu; Qingsheng et al.
US 6038483 A	USPAT	20000314	Implantable conformal coil patch electrode with multiple conductive elements for cardioversion and defibrillation	607/129		KenKnight; Bruce H. et al.
US 6032079 A	USPAT	20000229	Implantable conformal coil electrode with multiple conductive elements for cardioversion and defibrillation	607/129		KenKnight; Bruce H. et al.
US 6026332 A	USPAT	20000215	Implantable conformal coil patch electrode with multiple conductive elements for cardioversion and defibrillation	607/129		Kenknight; Bruce H. et al.
US 6026320 A	USPAT	20000215	Heart rate variability as an indicator of exercise	600/510	600/521; 607/25	Carlson; Gerrard M. et

			capacity			al.
US 6021351 A	USPAT	20000201	Method and apparatus for assessing patient well-being	607/19	607/27	Kadhiresan; V. A. et al.
US 6002962 A	USPAT	19991214	Implantable triphasic waveform defibrillator	607/5	607/7	Huang; Jian et al.
US 5978705 A	USPAT	19991102	Method and apparatus for treating cardiac arrhythmia using auxiliary pulse	607/5	607/122	KenKnight; Bruce H. et al.
US 5978704 A	USPAT	19991102	Method and apparatus for treating cardiac arrhythmia	607/5	607/123	Ideker; Raymond E. et al.
US 5935160 A	USPAT	19990810	Left ventricular access lead for heart failure pacing	607/122		Auricchio; Angelo et al.
US 5916243 A	USPAT	19990629	Implantable conformal coil patch electrode with multiple conductive elements for cardioversion and defibrillation	607/129		KenKnight; Bruce H. et al.
US 5916238 A	USPAT	19990629	Implantable intravenous cardiac stimulation system with pulse generator housing serving as optional additional electrode	607/5		Hauser; Robert G. et al.
US 5843136 A	USPAT	19981201	Pacing output circuitry for automatic capture threshold detection in cardiac pacing systems	607/13	607/28	Zhu; Qingsheng et al.
US 5836987 A	USPAT	19981117	Apparatus and method for optimizing cardiac performance by determining the optimal timing interval from an accelerometer signal	607/17	607/18	Baumann; Lawrence S. et al.
US 5803928 A	USPAT	19980908	Side access "over the wire" pacing lead	607/122	600/374	Tockman; Bruce A. et al.
US 5797967 A	USPAT	19980825	System and method to reduce defibrillation requirements	607/4		KenKnight; Bruce H.
US 5792195 A	USPAT	19980811	Acceleration sensed safe upper rate envelope for calculating the hemodynamic upper rate	607/17	607/18; 607/19	Carlson; Gerrard M. et al.

			limit for a rate adaptive cardiac rhythm management device			
US 5728140 A	USPAT	19980317	Method for evoking capture of left ventricle using transeptal pacing lead	607/9		Salo; Rodney W. et al.
US 5713926 A	USPAT	19980203	Implantable intravenous cardiac stimulation system with pulse generator housing serving as optional additional electrode	607/5		Hauser; Robert G. et al.
US 5700283 A	USPAT	19971223	Method and apparatus for pacing patients with severe congestive heart failure	607/17	607/18; 607/23; 607/25	Salo; Rodney W.
US 5603331 A	USPAT	19970218	Data logging system for implantable cardiac device	600/508	607/25	Heemels; Jan P. et al.
US 5584868 A	USPAT	19961217	Cardiac stimulating apparatus and method for heart failure therapy	607/17		Salo; Rodney W. et al.
US 5540727 A	USPAT	19960730	Method and apparatus to automatically optimize the pacing mode and pacing cycle parameters of a dual chamber pacemaker	607/18	607/17	Tockman; Bruce A. et al.
US 5514174 A	USPAT	19960507	Positive fixation device	607/128		Heil, Jr.; Ronald W. et al.
US 5496362 A	USPAT	19960305	Implantable conformal coil patch electrode with multiple conductive elements for cardioversion and defibrillation	607/129		KenKnight; Bruce H. et al.
US 5487752 A	USPAT	19960130	Automated programmable stimulating device to optimize pacing parameters and method	607/17	607/22; 607/23	Salo; Rodney W. et al.
US 5466245 A	USPAT	19951114	Method and apparatus to continuously optimize the A-V delay in a dual chamber pacemaker	607/17	607/9	Spinelli; Julio C. et al.
US 5425756 A	USPAT	19950620	Positive fixation device	607/128		Heil, Jr.; Ronald W. et al.

US 5423870 A	USPAT	19950613	Rate responsive cardiac pacemaker	607/18	607/9	Olive; Arthur L. et al.
US 5417717 A	USPAT	19950523	Implantable cardiac function monitor and stimulator for diagnosis and therapy delivery	607/18	607/23; 607/24; 607/3	Salo; Rodney W. et al.
US 5413593 A	USPAT	19950509	Using sub-threshold unipolar pacing markers to improve the interpretation of surface EKG in pacemaker patients	607/27	607/36	Spinelli; Julio C. et al.
US 5397342 A	USPAT	19950314	Resilient structurally coupled and electrically independent electrodes	607/129	607/5	Heil, Jr.; Ronald W. et al.
US 5391200 A	USPAT	19950221	Defibrillation patch electrode having conductor-free resilient zone for minimally invasive deployment	607/129	600/374; 600/555	KenKnight; Bruce H. et al.
US 5391190 A	USPAT	19950221	Variation in cardiac chamber volume or pressure as a controlling parameter	607/23	607/18	Pederson; Brian D. et al.
US 5385574 A	USPAT	19950131	Implantable intravenous cardiac stimulation system with pulse generator housing serving as optional additional electrode	607/4	607/14; 607/9	Hauser; Robert G. et al.
US 5334222 A	USPAT	19940802	Cardiac stimulating apparatus and method for heart failure therapy	607/17	607/23; 607/24	Salo; Rodney W. et al.
US 5330512 A	USPAT	19940719	Electrode charge-neutral sensing of evoked ECG	607/28		Hauck; John A. et al.
US 5314464 A	USPAT	19940524	Method and applicator tool for implanting cardiac defibrillation electrodes	607/132	607/116; 607/130	KenKnight; Bruce H. et al.
US 5314462 A	USPAT	19940524	Positive fixation device	607/128		Heil, Jr.; Ronald W. et al.
US 5312452 A	USPAT	19940517	Cardiac rhythm management device with automatic optimization of performance related pacing parameters	607/17		Salo; Rodney W.
US 5282838 A	USPAT	19940201	Dual chamber cardiac	607/9	607/30	Hauser;

			pacemaker employing hysteresis to maximize the number of normally conducted ventricular beats with an optimum A-V delay for paced ventricular beats			Robert G. et al.
US 5235976 A	USPAT	19930817	Method and apparatus for managing and monitoring cardiac rhythm using active time as the controlling parameter	607/25		Spinelli; Julio C.
US 5190035 A	USPAT	19930302	Biomedical method and apparatus for controlling the administration of therapy to a patient in response to changes in physiological demand	607/24		Saló; Rodney W. et al.
US 5156147 A	USPAT	19921020	Variable rate pacemaker having upper rate limit governor based on hemodynamic performance	607/24		Warren; Jay A. et al.
US 5137019 A	USPAT	19920811	Variation in cardiac chamber volume or pressure as a controlling parameter	607/20	600/547	Pederson; Brian D. et al.
US 4911174 A	USPAT	19900327	Method for matching the sense length of an impedance measuring catheter to a ventricular chamber	600/508		Pederson; Brian D. et al.
US 4773401 A	USPAT	19880927	Physiologic control of pacemaker rate using pre-ejection interval as the controlling parameter	607/17		Citak; Brian P. et al.
US 4733667 A	USPAT	19880329	Closed loop control of cardiac stimulator utilizing rate of change of impedance	607/24		Olive; Arthur L. et al.
US 4686987 A	USPAT	19870818	Biomedical method and apparatus for controlling the administration of therapy to a patient in response to changes in physiologic demand	607/24		Saló; Rodney W. et al.

US 4674518 A	USPAT	19870623	Method and apparatus for measuring ventricular volume	600/508	600/526; 600/547	Salo; Rodney W.
US 4587975 A	USPAT	19860513	Dimension sensitive angioplasty catheter	600/506	604/913; 606/192	Salo; Rodney W. et al.